

PATENT APPLICATION

TN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q94181

Takeyuki SUGIURA

Appln. No.: 10/573,969

Group Art Unit: Not yet assigned

Confirmation No.: Not yet assigned

Examiner: Not yet assigned

Filed: March 30, 2006

For:

TETRAHYDROFOLATE SYNTHETASE GENE

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§ 1.97 and 1.98

MAIL STOP AMENDMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, along with a copy of the corresponding Communication from a Foreign Patent Office, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

U.S. Appln: No.: 10/573,969

on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after

filing a request for continued examination (RCE) under §1.114, and therefore, no Statement

under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such

document constitutes prior art against the claims of the present application. Applicant does not

waive any right to take any action that would be appropriate to antedate or otherwise remove any

listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue

Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any

overpayments to said Deposit Account.

Respectfully submitted,

Registration No. 32,197

SUGHRUE MION, PLLC Telephone: (202) 293-7060

Facsimile: (202) 293-7860

WASHINGTON OFFICE 23373
CUSTOMER NUMBER

Date: July 25, 2006

2

Substitute for Form 1449 A & B/PTO				Complete if Known		
•			100	Application Number	10/573,969	
INFOR	MATION	DISCLO	SURTE HOS	Confirmation Number	Not yet assigned	
CTATI	ENGENT D	V A DDL I	SANT 6	Filing Date	March 30, 2006	
SIAII	EMENIB	Y APPLIC	JUL 2 5 2006	First Named Inventor	Takeyuki SUGIURA	
(use	as many shee	ets as necesso	INV) JUL 2 5	Art Unit	Not yet assigned	
,	-		13/2 40	Examiner Name	Not yet assigned	
Sheet	1	of	4 Temporent	Attorney Docket Number	Q94181	

U.S. PATENT DOCUMENTS					
	Cite	Document	Number	Publication Date	
Examiner Initials*	No.1	Number	Kind Code ² (if known)	MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		US			

FOREIGN PATENT DOCUMENTS							
Examiner Cite	Cite	Foreign Patent Document			Publication Date	Name of Patentee or	
Initials*	No.	Country Code ³	Number ⁴	Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	Translation ⁶
. /IC/		WO	02/083873	A2	10/24/2002		English
						24	_
			-				-
		-		1			_
					-		

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ^t	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶		
/IC/		Dean W. Hum et al., "Primary Structure of a Human Trifunctional Enzyme" (1988), The Journal of Biological Chemistry, Vol. 263, No. 31, pp. 15946-15950			
/IC/		Chuck Staben et al., "Nucleotide Sequence of the Saccharomyces cerevisiae ADE3 Gene Encloding C ₁ - Tetrahydrofolate Synthase*" (1986), The Journal of Biological Chemistry, Vol. 261, No. 10, pp. 4629-4637			
/IC/		Karen W. Shannon et al., "Purification and Characterization of a Mitochondrial Isozyme of C,- Tetrahydrofolate Synthase from Saccharomyces cerevisiae*" (1986), The Journal of Biological Chemistries, Inc., Vol. 261, No. 26, pp. 12266-12271			
/IC/		Anice E. Thigpen et al., "Rat C ₁ -Tetrahydrofolate Synthase" (1990), The Journal of Biological Chemistry, Vol. 265, No. 14, pp. 7907-7913			
/IC/		Inderjit K. Dev et al., "A Complex of N ³ ,N ¹⁰ -Methyleneterahydrofolate Dehydrogenase and N ³ ,N ¹⁰ -Methey)tetrahydrofolate Cyclohydrolase in Escherichia coli" (1978), The Journal of Biological Chemistry, Vol. 223, No. 12, pp. 4245-4253			
/IC/		S.K. Raj et al., "Reverse Transcription-Polymerase Chain Reaction (RT-PCR) for Direct Detection of Cucumber Mosaie Virus (CMV) in Gladiolus" (1998), Biochemistry and Molecular Biology International, pp. 89-95			

/lobal Chowdhury/ (06/21/2007)		
Examiner Signature	Date Considered	- 1
Examiner Organizate		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique cristion designation number (opional). Tele, Kind Codes of USFTO Perest Documents at seven usaging any. MFEP 90.0 Let of John the hyperisk from the risk of the document of the investment. There Office funds instead the documents, by the involvance of the Oriental Security of the Comments, the indication of the year of the right of the Emperor must precede the serial number of the patent document. "Nation of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible." Applicant is to indicate here if Engish Impager Transation is standed document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. "Standard ST. 16 if possible."

Substitute for Form 1449 A & B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	2	of 4

Complete if Known				
Application Number	10/573,969			
Confirmation Number	Not yet assigned			
Filing Date	March 30, 2006			
First Named Inventor	Takeyuki SUGIURA			
Art Unit	Not yet assigned			
Examiner Name	Not yet assigned			
Attorney Docket Number	Q94181			

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite	Document	Number	Publication Date		
	No.1	Number	Kind Code ² (if known)	MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
		US				
		US				
		US			,	
		US				
		US				
		US				
		US				

FOREIGN PATENT DOCUMENTS							
Examiner	Cite	For	eign Patent Docum	ent	Publication Date	Name of Patentee or	
Initials*	No.1	Country Code ³	Number ⁴	Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	Translation ⁶
					-		
		-					

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), tille of the article (when appropriate), tille of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶	
/IC/		Michael A. Frohman et al., "Rapid production of full-length cDNAs from rare transcripts: Amplification using a single gene-specific oligonucleotide primer" (1988), Proc. Natl. Acad. Sci., Vol. 85, pp. 8998-9002		
/IC/		F. Sanger et al., "DNA sequencing with chain-terminating inhibitors" (1977), Proc. Natl. Acad. Sci., Vol. 74, No. 12, pp. 5463-5467		
/IC/		Allan M. Maxam et al., "Sequencing End-Labeled DNA with Base-Specific Chemical Cleavages" (1977), Methods in Enzymology, Vol. 65, pp. 499-560		
/IC/		Manual G. Claros et al., "Computational method to predict mitochondrially imported proteins and their targeting sequences" (1996), Eur. J. Biochem., Vol. 241, pp. 779-786		
/IC/		Paul J. Kim et al., "Survivin and molecular pathogenesis of colorectal cancer" (2003), The Lancet, Vol. 362, pp. 205-209		
/IC/		Rachel H. Giles et al., "Caught up in a Wnt Storm: Wnt signaling in cancer" (2003), Biochimica et Biophysica Acta 1653, pp. 1-24		

Examiner Signature	/lqbal Chowdhury/ (06/21/2007)	Date Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique cristion designation number (optional), *See Kiel Codec of USFTO Patest Decorates at seven suppose, MPEP 90.16 to 6 foodboom to hyperitak from the title of the consument to the instant and the documents, but the instant of the documents, but the instant of the columners to the instant of the columners, but the instant of the columners, but the results of the patent of the patent of the patent of comment. *Kind of document by the appropriate symbols as indicated on the document under WPO Standard ST. 16 if possible. *Benjocant is to indicate here of English Insugaer Translation is stated.

Substitute for Form 1449 A & B/PTO

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

(use us many	Directs do	,,cccssu,	,,
3		of	4

Complete if Known				
Application Number	10/573,969			
Confirmation Number	Not yet assigned			
Filing Date	March 30, 2006			
First Named Inventor	Takeyuki SUGIURA			
Art Unit	Not yet assigned			
Examiner Name	Not yet assigned			
Attorney Docket Number	Q94181			

U.S. PATENT DOCUMENTS						
Examiner	Cite	Document		Publication Date		
Initials*	No.1	Number	Kind Code ² (if known)	MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	
		US				
		US				
		US				
		US				
		US				
		US				
		US				

	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document			Publication Date	Name of Patentee or		
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	Translation ⁶	
							_	
				-				
		-			-		-	
_		-		 				

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(3), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
/10/		Tong-Chuan He et al., "Identification of c-MYC as a Target of the APC Pathway" (1998), Science, Vol. 281, pp. 1509-1512	
7/IC/		David L. Levens, "Reconstructing MYC" (2003), Genes & Development, pp. 1071-1077	
71C/		Timothy A. Garrow et al., "Cloning of Human cDNAs Encoding Mitochondrial and Cytosolic Scrine Hydroxymethyltransferases and Chromosomal Localization" (1993), The Journal of Biological Chemistry, Vol. 268, No. 16, pp. 11910-11916	
/IC/		Mikhail A. Nikiforov et al., "A Functional Screen for Myc-Responsive Genes Reveals Serine Hydroxymethyltransferase, a Major Source of the One-Carbon Unit for Cell Metabolism" (2002), Vol. 22, No. 16, pp. 5793-5800	
/IC/		Sean V. Tavtigian et al., "Cloning of Mid-G ₁ Serum Response Genes and Identification of a Subset Regulated by Conditional myc Expression" (1994), Molecular Biology of the Cell, Vol. 5, pp. 375-388	
/IC/		Enrique Villar et al., "C ₁ -Tetrahydrofolate Synthase from Rabbit Liver" (1985), The Journal of Biological Chemistry, Vol. 260, No. 4, pp. 2245-2252	

/Igbal Chowdhury/ (06/21/2007)

this form with next communication to applicant.

Applicant's unique ciution designation number (opional). See Kind Codes of USFTO Patent Documents at www autops open, MFEP 99.0 60 of dollow be hyperink from the nite of the comment to the externel. Fater Officer has been del to be a few of the comment to the center. Fater Officer has been del to only be two-let tree of CMPIO Standard St. 1.3. You planters perted comments, the indication of the year of the right of the Emperor must precede the serial number of the patent accument. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible."

Applicant is to indicate here it English Insurgae/Translation is stated.

Complete if Known Substitute for Form 1449 A & B/PTO 10/573,969 Application Number Confirmation Number Not yet assigned INFORMATION DISCLOSURE Filing Date March 30, 2006 STATEMENT BY APPLICANT Takeyuki SUGIURA First Named Inventor Art Unit Not yet assigned (use as many sheets as necessary) Examiner Name Not yet assigned Sheet 4 of 4 Attorney Docket Number Q94181

	U.S. PATENT DOCUMENTS							
Examiner	Cite No.1	Document	Number	Publication Date				
Initials*		Number	Kind Code ² (if known)	MM-DD-YYYY	Name of Patentee or Applicant of Cited Document			
		US						
		US						
		US						
		US						
		US						
		US						
		US						

FOREIGN PATENT DOCUMENTS								
Examiner	Cite No.1	Cite Foreign Patent Document			Publication Date	Name of Patentee or		
Initials*		Country Code ³	Number ⁴	Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	Translation ⁶	
		-		+				
				 				

Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation
/IC/		Priya Prasannan et al., "Human Mitochondrial C ₁ -Tetrahydrofolate Synthase" (2003), The Journal of Biological Chemistry, Vol. 278, No. 44, pp. 43178-43187	
/IC/		Takeyuki Sugiura et al., "A novel mitochondrial C ₁ -tetrahydrofolate synthetase is upregulated in human colon adenocarcinoma" (2004), Biochemical and Biophysical Research Communications, Vol. 315, pp. 204-211	
/IC/		International Search Report dated November 16, 2004	

V.			
Examiner Signature	/lqbal Chowdhury/ (06/21/2007)	Date Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unsigns clustion designation number (opiosan). *See Kind Codes of USFTO Patent Documents at www unspis open. MPEP 901.6 or for the best between the limit of the comment to the instead. *In the Collection is instead the document, by the two-letter code (MPO) Sandard ST. 3) *For Japanese pathod on the comment, be indicationed in the patent as for the patent document. *Nind of comment to the instance of the patent document of the patent document is with the patent pathod as a indicated on the document under WPO Sundard ST. 16 if possible. *See Applicant is to indicate the ref English flanguage Translation is stated.